	Practitioner's Docket No. 1111-20 PATENT
1	IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
4	Ref Pat nt application
	ofInventor(s)
	for
	Title of invention
.,	the specification of which is being transmitted herewith
	OR
	In re application of: PENN, Laurence Richard
	Application No.: 10 / 642,496 Group No.: 3753 Filed: August 18, 2003 Examiner: For: METERING DEVICE
	Assistant Commissioner for Patents Washington, D.C. 20231
	INFORMATION DISCLOSURE STATEMENT
	CERTIFICATION UNDER 37 C.F.R. §§ 1.8(a) and 1.10* (When using Express Mail, the Express Mail label number is mandatory; Express Mail certification is optional.)
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is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will **not** be granted on petition. Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

(Information Disclosure Statement [6-1]—page 1 of _____)

- NOTE: "An information disclosure statement shall be considered by the Office if filed by the applicant:
 - (1) Within three months of the filing date of a national application;
 - (2) Within three months of the date of entry of the national stage as set forth in § 1.491 in an international application; or
 - (3) Before the mailing date of a first Office action on the merits, whichever event occurs last.*

 37 C.F.R. § 1.97(b).
- NOTE: "Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section." 37 C.F.R. § 1.56(a).

"Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

- (1) each inventor named in the application;
- (2) each attorney or agent who prepares or prosecutes the application; and
- (3) every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application." 37 C.F.R. § 1.56(c).
- NOTE: The "duty as described in § 1.56 will be met so long as the information in question was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98 before issuance of the patent." Notice of January 9, 1992, 1135 O.G. 13 -25 at 17.

WARNING: "No information disclosure statement may be filed in a provisional application." 37 C.F.R. § 1.51(b).

List of Sections Forming Part of This Information Disclosure Statement

The following sections are being submitted for this Information Disclosure Statement:

(check sections forming a part of this statement: discard unused sections and number pages consecutively)

1.	X	Preliminary Statements							
2.	X	FORMS PTO/SB/08A and 08B (formerly FORM PTO-1449)							
3.		Statement as to Information Not Found in Patents or Publications							
4.		Identification of Prior Application in Which Listed Information Was Already Cited and for Which No Copies Are Submitted or Need Be Submitted							
5.		Cumulative Patents or Publications							
6.	X	Copies of Listed Information Items Accompanying This Statement							
7.		Concise Explanation of Non-English Language Listed Information Items							
		7A. EPO Search Report							
		7B. ☐ English Language Version of EPO Search Report							
8.		<u> </u>							
9.	₩	Concise Explanation of English Language Listed Information Items (Optional)							

(complete the following, if appropriate)

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Sections	, respectively, have been continued on ADDED PAGE(S).
NOTE:	"Once the minimum requirements are met, the examiner has an obligation to consider the information."
	Notice of April 20, 1992 (1138 O.G. 37-41, 37).

(Information Disclosure Statement [6-1]—page 2 of ___

Section 1. Preliminary stat ments

Applicants submit herewith patents, publications or other information, of which they are aware that they believe may be material to the examination of this application, and in respect of which, there may be a duty to disclose.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 C.F.R. 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists.

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

Section 6. Copi s f Listed Information Items Accompanying This Statement

NOTE: 37 C.F.R. 1.98(a)(2) requires that any information disclosure statement filed under § 1.97 shall include: "A legible copy of: (1) Each U.S. and foreign patent; (ii) Each publication or that portion which caused it to be listed; and (iii) All other information or that portion which caused it to be listed, except that no copy of a U.S. patent application need be included . . . "

NOTE: The wording in § 1.98(a)(2)(iii) makes it clear that the requirement to submit a copy of each item of information listed in an information disclosure statement does not apply to the citation of a U.S. patent application. Notice of January 9, 1992, 1135 O.G. 13-25, at 14.

Legible copies of all items listed in Forms PTO/SB/08A and 08B (formerly Form PTO-1449) accompany this information statement.

(complete the following, if applicable)

□ Exception(s) to above:

□ Items in prior application, from which an earlier filing date is claimed for this application, as identified in Section 4.

□ Cumulative patents or publications identified in Section 5.

Secti n . Concise Explanation f English Language Listed Inf rmation Items (OPTI NAL)

NOTE: "Applicants may, If they wish, provide a concise explanation of why English-language information is being submitted and how it is understood to be relevant. Concise explanations are helpful to the Office, particularly where documents are lengthy and complex and applicant is aware of a section that is highly relevant to patentability or where a large number of documents are submitted and applicant is aware that one or more are highly relevant to patentability." Notice of April 20, 1992 (1138 O.G. 37-41, 38).

British Patent No. GB2,377,425, issued on January 15, 2003 to Penn, the present inventor, teaches a metering device that has a chamber with a shuttle therein, and a valve adapted to control the flow of fluid to an end of the chamber, causing the shuttle to move axially and displace fluid from the opposite end. Fluid is then subsequently supplied to the other side of shuttle causing it to move back to its initial position thus dispensing liquid from the other side.

PCT Publication No. WO/00/75,611, issued on December 14, 2000 to the present inventor, describes a metering device that contains a rotor which defines an elongate chamber, the being a shuttle contained within the chamber movable between two terminal end positions. Frusto conical surfaces defined on the rotor cooperate with annular members defining corresponding seats. One passage extends from one end of the chamber to one frusto conical surface, and another passage extends from the other end of the chamber to the other frusto conical surface. Each annual element defines a respective inlet and outlet for fluid and a shuttle is present within the chamber. As the rotor rotates, the shuttle effects a shuttling movement thus measuring dispensed volumes of liquid.

PCT Publication No. WO/90/10,190, issued on September 7, 1990 to Gordeeva et al., describes a device for measuring the parameters of developing surface cracks, that comprises a sensitive element applied to a dielectric sublayer at the point of expected development of a surface crack and comprised of a number of conductors, and further comprises a measuring circuit electrically connected to the sensitive element in which the ends of the conductors are electrically interconnected in series by their main bridges, the sensitive element being also provided with additional bridges each of which is located opposite a main bridge.

Section 10. Identification of Person(s) Making This Information Discl sure Statement

The person	on m	aking this	statement is		
			(check each	h applicable item)	
(a)		the inve	ntor(s) who signs	below	
				SIGNATURE OF INVENTOR	
	_			(type name of inventor who is signing)	
(b)				th the filing and prose- (37 C.F.R. § 1.56(c))	
				SIGNATURE OF INVENTOR	
				(type name of inventor who is signing)	
(c) 🖾 the practitioner who signs below on the basis of the information:					
			(check eac	h applicable item)	
			supplied by the in	nventor(s).	
				dividual associated with the filing and prosecution n. (37 C.F.R. § 1.56(c))	
		(2)	in the practitione	r's file.	
				SIGNATURE OF PRACTITIONER	
Reg. No.:	30	,627		John S. Egbert	
Tel. No.:	(713-2	24-8080	(type or print name of practitioner) Harrison & Egbert 412 Main St., 7th Floor	
Customer	No.:	2410	6	P.O. Address Houston, Texas 77002	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	1	of	1

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Complete if Kn wn						
Application Number	10/642,496					
Filing Date	August 18, 2003					
First Named Inventor	PENN, Laurence Richard					
Group Art Unit	3753					
Examiner Name						
Attorney Docket Number	1111-20					

				U.S. PATENT DOCU	JMENTS	
Examiner Initials*	Cite No. ¹	U.S. Paten Number	t Document Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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	FOREIGN PATENT DOCUMENTS									
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		GB	2,377,425		Penn	01-15-2003		T		
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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.